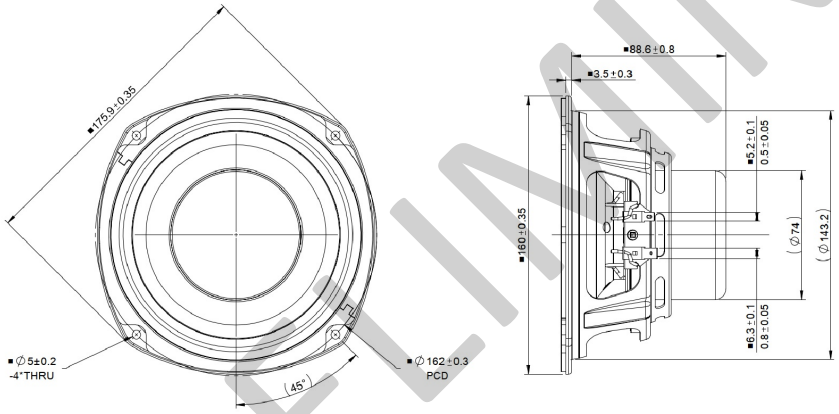
Peerless

NSM-0620R03-16

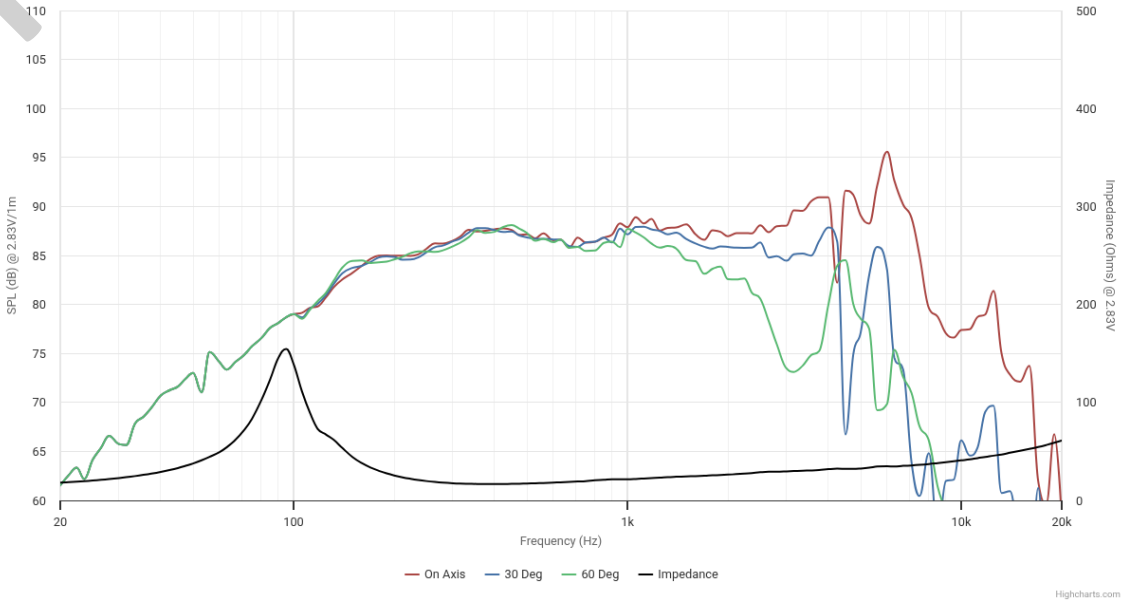
PROFESSIONAL WOOFER

- Neodymium Motor
- Pressed Steel Basket
- Paper Diaphragm
- Fabric Surround
- High Power and Thermal Handling





SPECIFICATIONS			
Transducer Size		6.5	in
Impedance		16	Ω
Frequency Range [1]		95 - 8000	Hz
Sensitivity [2] **(2.83V | 1W @ 1m)**		87.7 | 90.7	dB
Power Rating (AES2-1984)		225	W
Voice Coil Size		50.5	mm
Air Gap | Winding Height	H_{ag} | H_{vc}	9 | 16.1	mm
Net Weight		1.3	kg
PARAMETERS [3]			
Eff. Piston Area	S_d	137	cm^2
DC Resistance	R_e	13	Ω
Minimum Impedance	Z_{min}	17	Ω
Inductance	L_e	0.485	mH
Resonance Frequency [4]	F_s	97	Hz
Mechanical Q Factor	Q_{ms}	4.5	-
Electrical Q Factor	Q_{es}	0.345	-
Total Q Factor	Q_{ts}	0.32	-
Moving Mass	M_{ms}	21.4	g
Compliance	C_{ms}	130	µm/N
Equivalent Volume	V_{as}	3.31	L
Motor Force Factor	Bl	21.9	Tm
Motor Efficiency	β	38	$(Bl)^2 / R_e$
Linear Excursion [5]	X_{max}	6.55	mm
Max Mechanical Excursion [6]	X_{mech}	13.8	mm



PRELIMINARY

Details on this spec sheet are for reference only and should not be used for setting production limits. Specifications and product cosmetics are subject to change without notice. Peerless is a registered trademark of Tymphany Enterprises. All measurements conducted in test lab at 25°C ±10°C, 50%RH ±10%. [1] Specified by Engineering as linear working range of transducer. [2] Measured at 2.83V at 1m and normalized to 1W with respect to nominal impedance. [3] Measured in Free Air without preconditioning, therefore subject to some deviation. [4] Impedance and Fs value measured under different conditions. [5] Equal/Overhung: $(H_{vc} - H_{ag})/2 + H_{ag}/3$. Underhung: $(H_{ag} - H_{vc})/2 + H_{vc}/3$. [6] Mechanically limited excursion (e.g. bottoming, spider crash).